

Innovative Teaching – Course Redesign project (ITCR)

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METR 060 & 061: Introduction to Meteorology (I & II)

A quantitative introduction to Atmospheric Science for Meteorology majors, taught as 2-unit lecture classes. In addition, MET 60 has a 3-hour lab section, where students are exposed to a number of practical and hands-on aspects of our discipline (e.g., weather maps and their interpretation).

Brief description of the course and its place in the curriculum

This is the first calculus-based class taken by both BS Meteorology and BS Meteorology concentration in Climate Science majors. It should be taken in the sophomore year, in the first year of what is effectively a three-year core program.

No class like this (i.e., a calculus-based survey class, either one or two semesters) is offered anywhere else in the CSU system or at community colleges in the state.

Summary of course re-design activities

Our goal is to create online versions of our METR 60 and 61 courses, which can be taken by prospective Meteorology majors throughout California.

This has the potential to (and is designed to) increase our number of majors by making earlier access to the core degree courses possible without the need to be in San Jose.

The online courses will contain short online lecture segments followed by guided exercises.

The course will be delivered within Canvas and will be mostly asynchronous. However, we will build in opportunities for synchronous chats and activities via WebEX.

